

## Claims

- [c1] 1. A household emergency power generator, using a gas fuel to generate power, comprising:
  - a gas fuel pipeline;
  - a solenoid, installed on said gas fuel pipeline for controlling closing or opening thereof;
  - a generator set, connected to said solenoid, wherein said generator set comprises an engine, which connected to a generator; and
  - an automatic transfer switch, connected to a power circuit of said generator set, wherein when power cut occurs, said automatic transfer switch of said emergency power supplier switches to said generator set to supply the gas fuel to said generator set through said gas fuel pipeline to operate said generator set for generating power.
- [c2] 2. The household emergency power generator according to claim 1, wherein said gas fuel is a natural gas.
- [c3] 3. The household emergency power generator according to claim 1, wherein said gas fuel is a liquefied natural gas.

- [c4] 4. The household emergency power generator according to claim 1, wherein said automatic transfer switch comprises a timer relay, and wherein when the regular power supply is cut, said timer relay automatically activates said generator set for generating power, and when the regular power supply is restored, said timer relay automatically stops the operation of said generator set.
- [c5] 5. The household emergency power generator according to claim 1, wherein said automatic transfer switch can switch to an automatic operation mode.
- [c6] 6. The household emergency power generator according to claim 1, wherein said automatic transfer switch can switch to a manual operation mode.
- [c7] 7. The household emergency power generator according to claim 1, wherein said automatic transfer switch can switch to a semi-automatic operation mode.